BeaconPlus Admin – User Manual

January 2015

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In case of any queries please contact us on support@pinmicro.com.

Revision History

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1 Introduction

The manual describes in detail all the existing functionalities of 'BeaconPlus Cloud'. This user manual would be particularly useful for admins and content writers who would use the system. 'Screenshots' have also been provided for better understanding of the functionalities.

To access the BeaconPlus cloud use the url : https://beaconplus.pinmicro.com

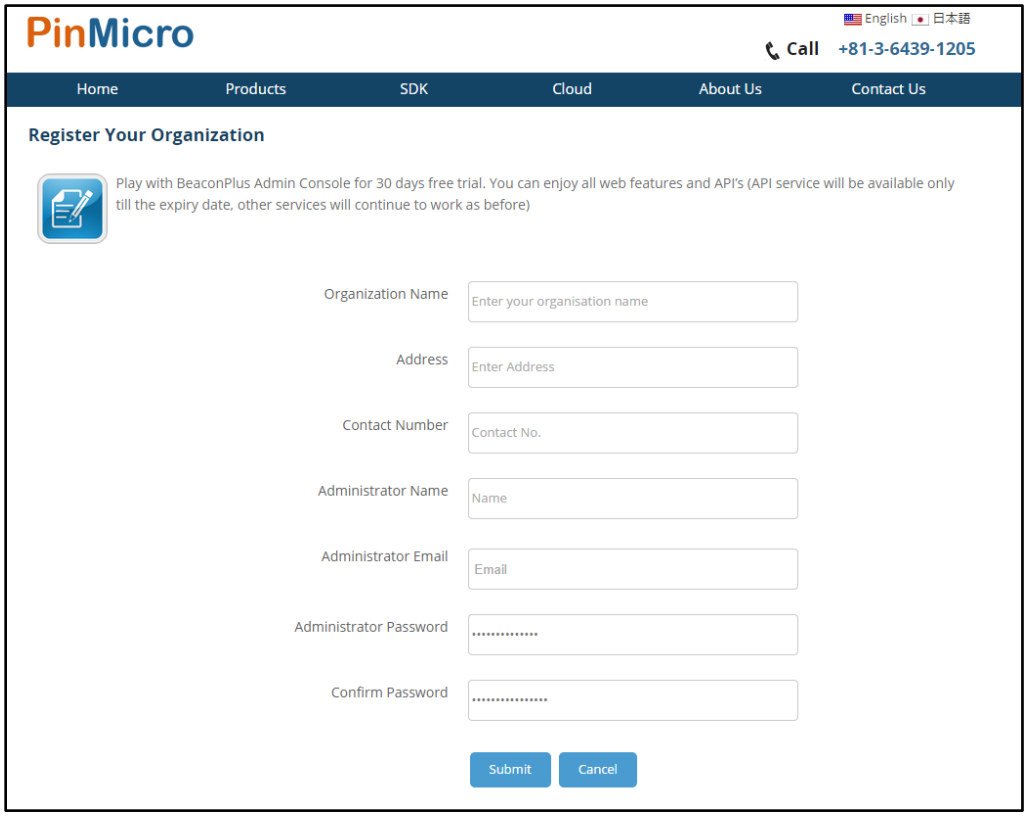
This manual explains the process in a step by step approach covering all the sections and thus helping the users follow the procedures for system access and its mode of use.

2 Registration and Log In

The first and foremost step to do before using BeaconPlus SDK is to register your organization. To register, click on the following link.

https://pinmicro.com/register/

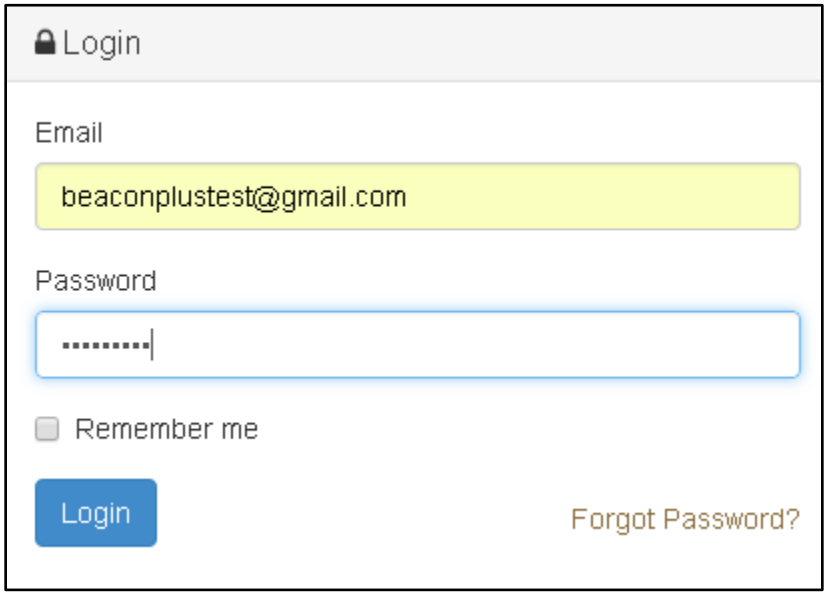
The link will redirect the user to the registration page as shown in the below screenshot



Fill up all the necessary details in the fields given, as shown in the above screenshot and once it is done, a confirmation mail will be send to the mail id with which user had registered.

Click on the link provided in the email and the user will be redirected to BeaconPlus Cloud Admin Console .

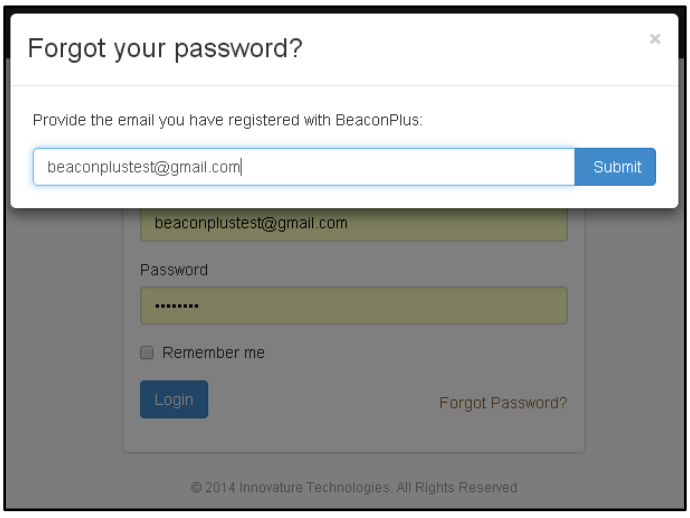
Screenshot of the Log in page is shown below.



Log in to the account using the username and password provided during registration process.

In case you forgot your password click on 'Forgot Password' option.

Enter the registered mail id in the field provided and click on the submit button.



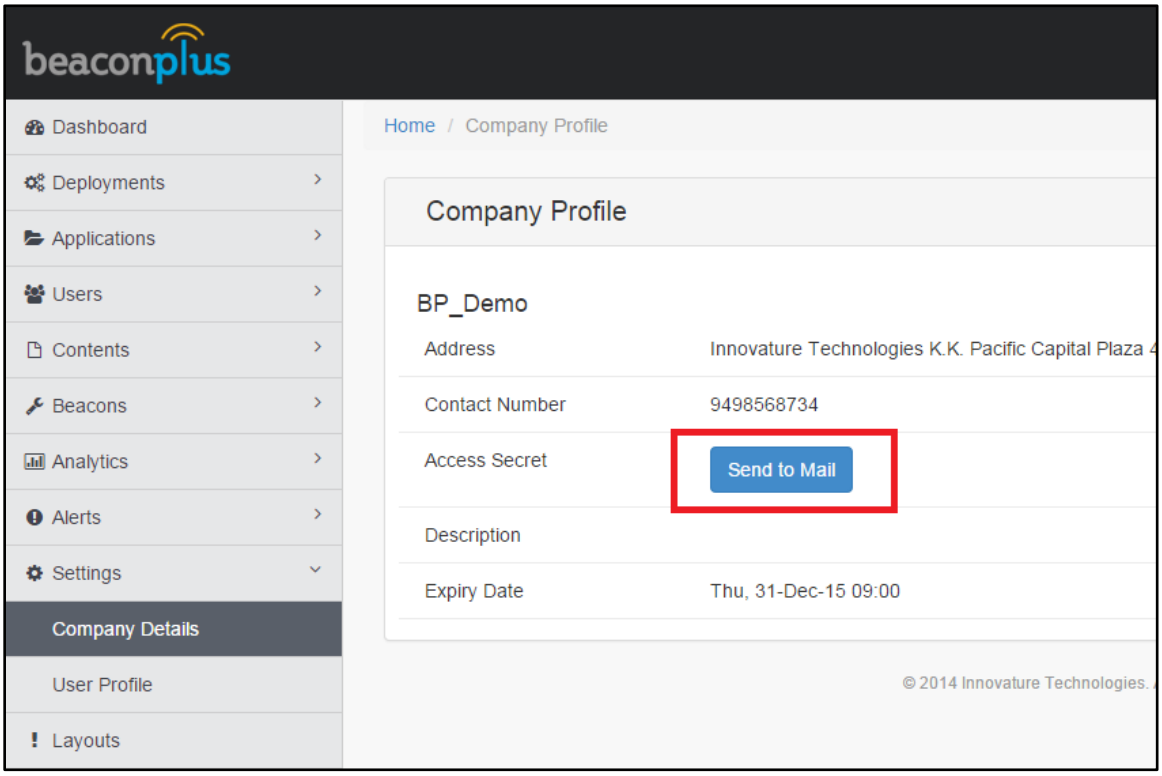
A password reset link will be sent to the registered email id.

Please note the link will be valid only for 24 hrs after receiving the email.

3 Getting an Access Secret

An ‘Access secret code’ is a necessary prerequisite to build any application using BeaconPlus SDK. To get the ‘Access secret Code’ go to Settings > Company Details section as shown in the below screenshot.

Click on the ‘Send to Mail’ button to receive the code in the registered email id.



Copy the Access secret received in mail for using the SDK (shown as XXXX… in this sample mail below)

Hello Admin,

Please find the Beacon Plus Access secret code with your organization,

Access secret code of your organization is <XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX>

Regards,

BeaconPlus Team
---
http://pinmicro.com
Innovature Technologies K.K.
Pacific Capital Plaza 4F,
4-8-6 Roppongi, Minato-ku,
Tokyo, Japan
Fax : 81-3-4496-6041
E-Mail: sales@pinmicro.com

4 BeaconPlus SDK integration

BeaconPlus cloud API Url : https://beaconplus.pinmicro.com/api/

For further details please go through the documents provided in the SDK download page

https://pinmicro.com/blog/category/beacon-sdk/#downloads

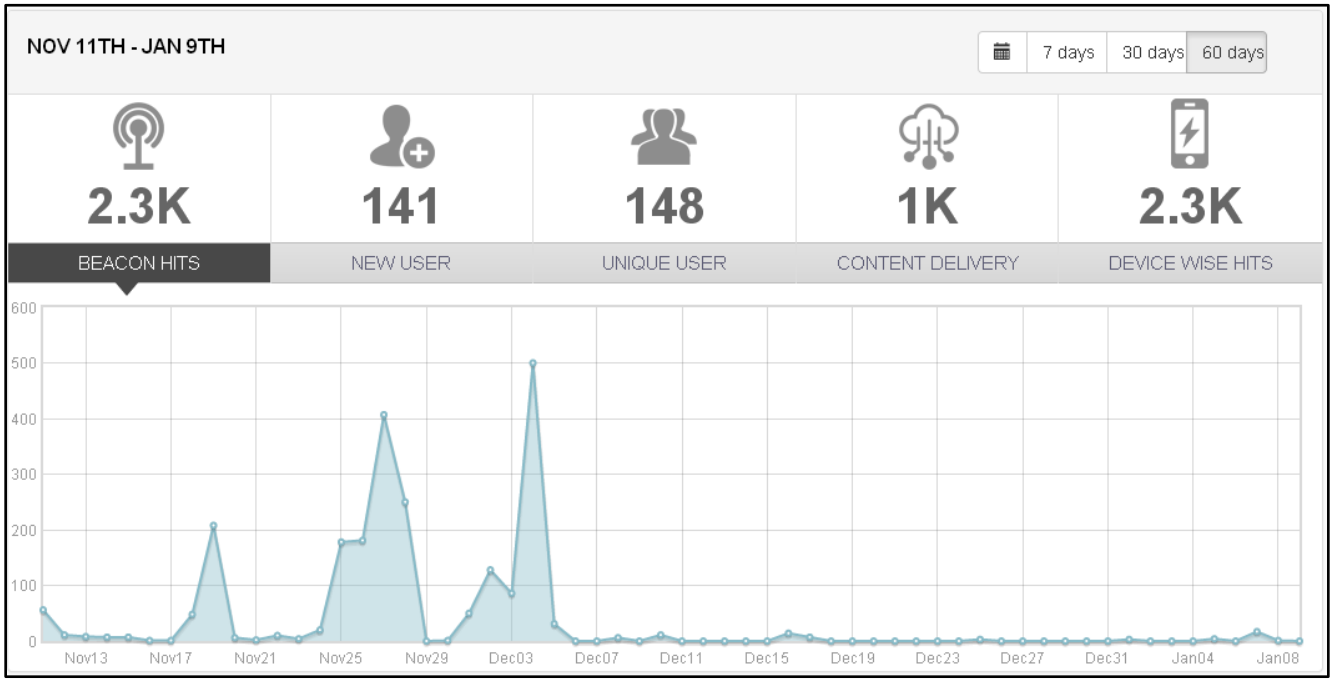
5 Dashboard

Successful Log in will direct you to the Dashboard. Dashboard more or less acts like an analytics table which provides up to date count of various parameters.

It provides the statistics of

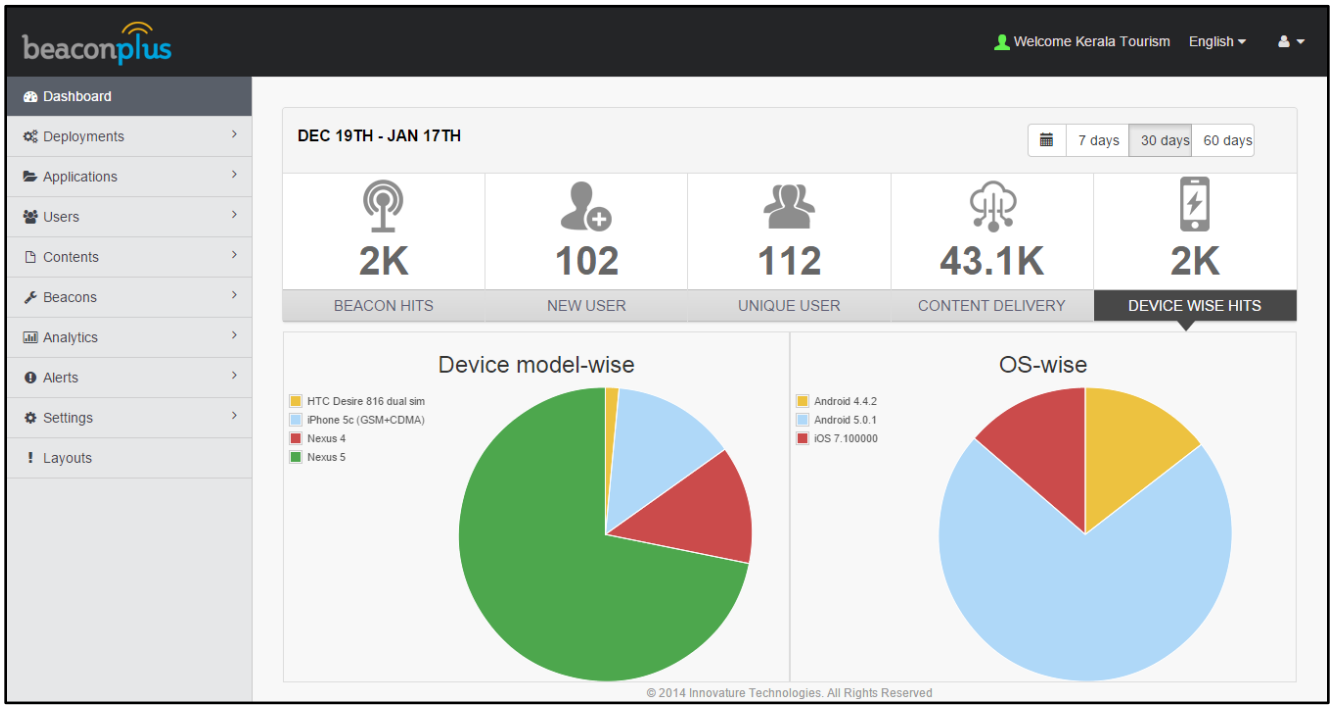
- *Beacon Hits* : The total number of beacon hits during a particular time period
- *New User*: The total number of new users joined in the specified time period
- *Unique User*: The total number of unique users in the specified time period.
- *Content Delivery* :The total content delivered
- *Device wise hits*: Total hits that have been split up based on Device – Model wise (Iphone, nexus etc) and OS type (Android, iOS etc).

The below screenshot shows an overview of the dashboard and the analytical graphs associated with it.



Consider the above screenshot; the above figure gives details of the total number of beacon hits within the time period Nov 11th to Jan 9th.

The graph below shows the day wise split of beacon hits in those 60 days.



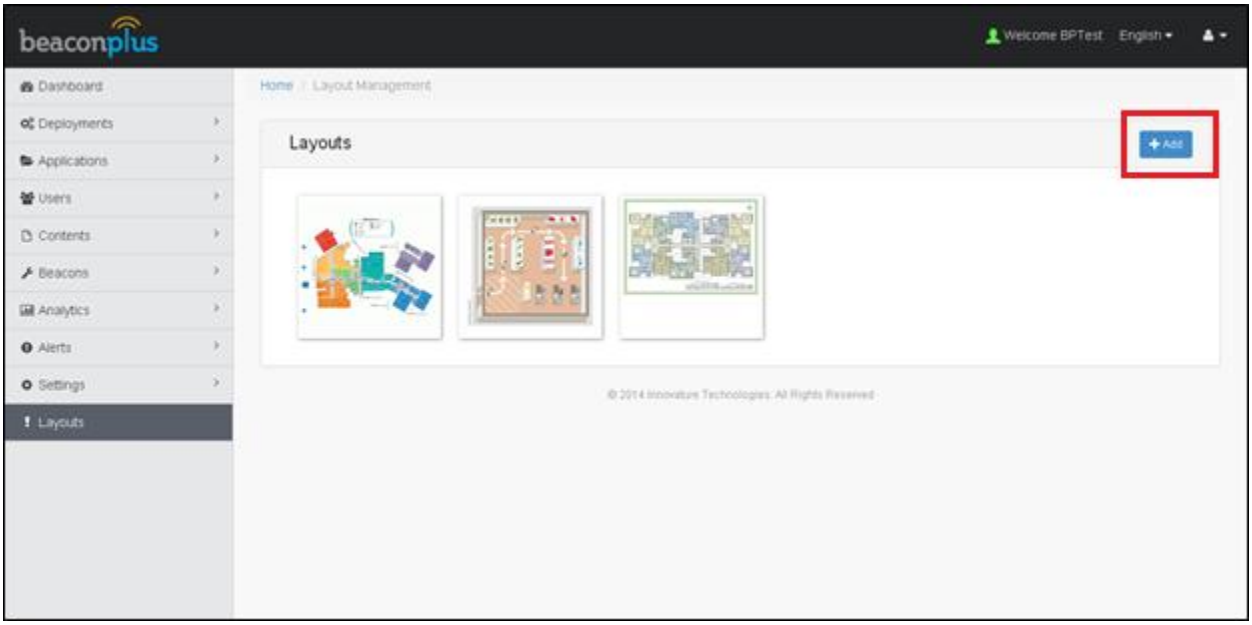
The screenshot shows the device wise and OS wise split up of the total beacon hits in the same date range.

** User can select a particular time period by setting the required date range. By default there are options to get data of previous 7 days, 30 days and 60 days.

6 Layouts

Layouts are nothing but a pictorial representation of floor areas on which the beacons have to be placed. This section enables the option to add floor layouts, which in turn would be used during beacon management and deployment processes. The need of the Layouts would be discussed in detail in the upcoming sections.

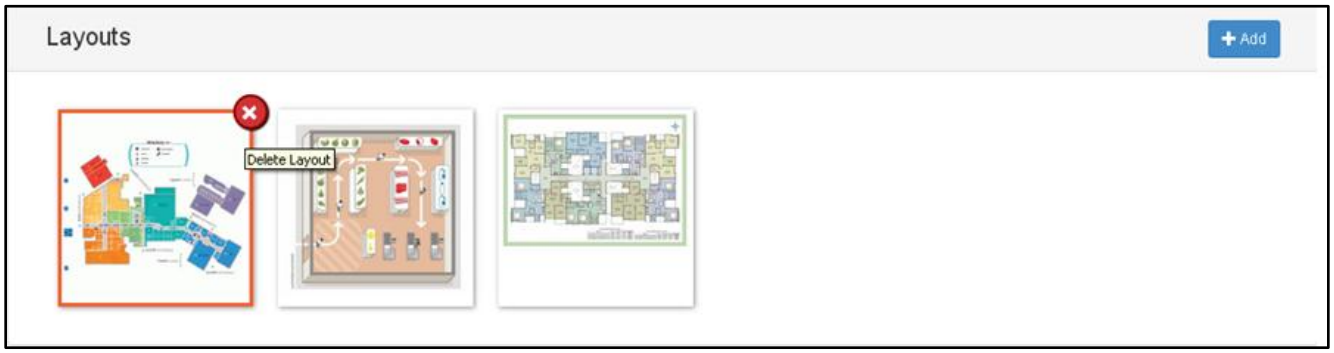
The Layouts page will show all the existing layouts as shown in the below screenshot.



Click on the Add button to add a new layout. Users can upload files (supported formats are .jpeg,.jpg, .png, .gif) from their system as shown in the below screenshot.

Name the layouts suitably so that you can find them easily for later use.

If you wish to remove an existing layout, click on the Close button corresponding to that particular layout, as shown below.



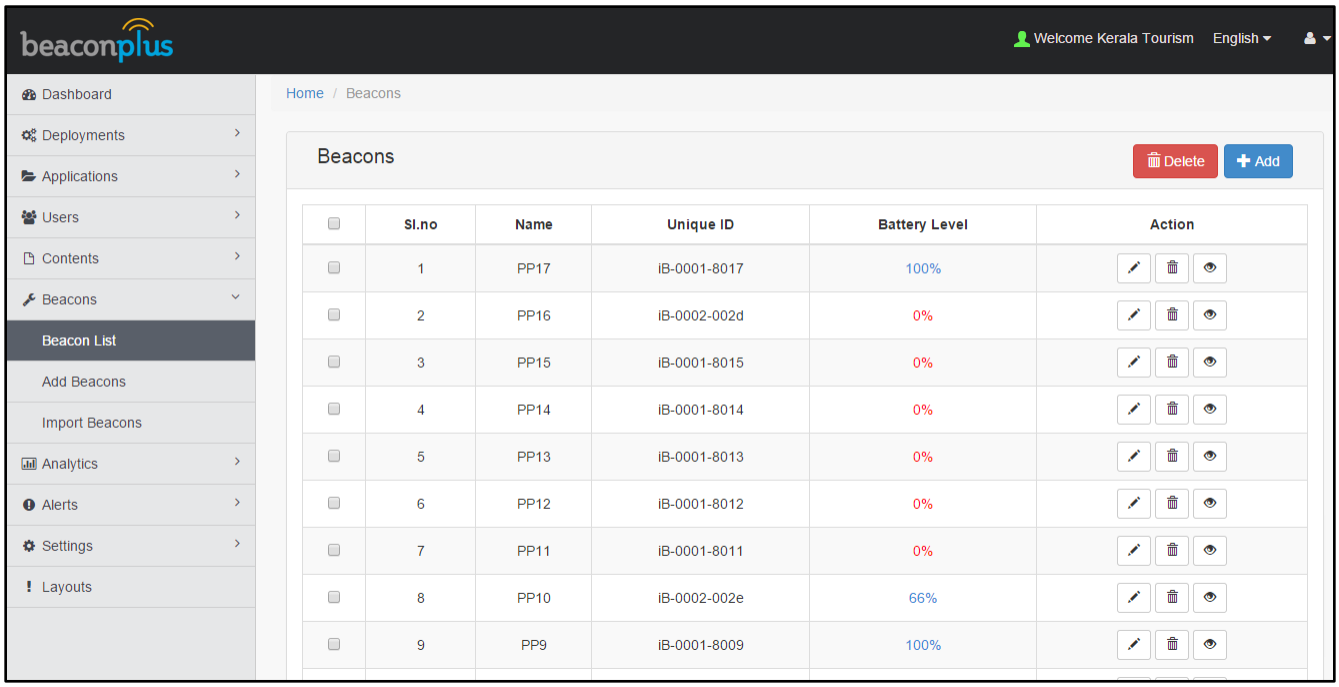
7 Beacons

Adding/deleting and managing different beacons are done from this section.

7.1 Beacon List

Beacon List lists out the details of all beacons that have already been added to the cloud. BeaconPlus SDK will work only for those beacons that have been added and registered in the cloud.

Users can edit/view/delete information by clicking on the corresponding buttons, as shown in the below screenshot.

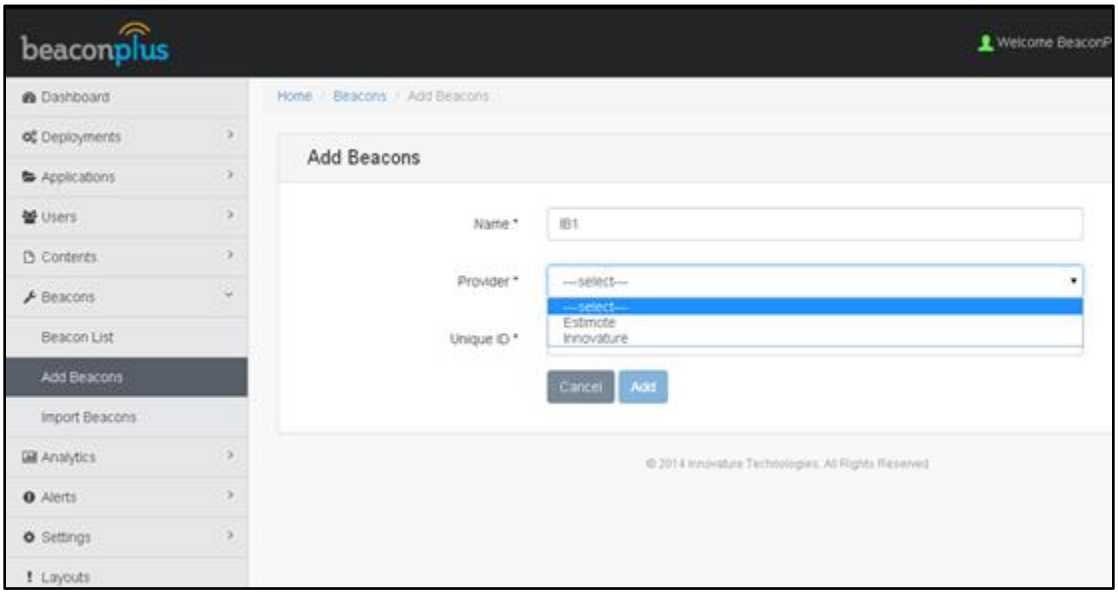


User can add a new beacon directly by clicking on the ‘Add’ button in this page or by below given methods.

7.2 Add beacon

Use this page to add a new beacon to the cloud.

The below given screenshot shows the method by which beacons can be added individually.

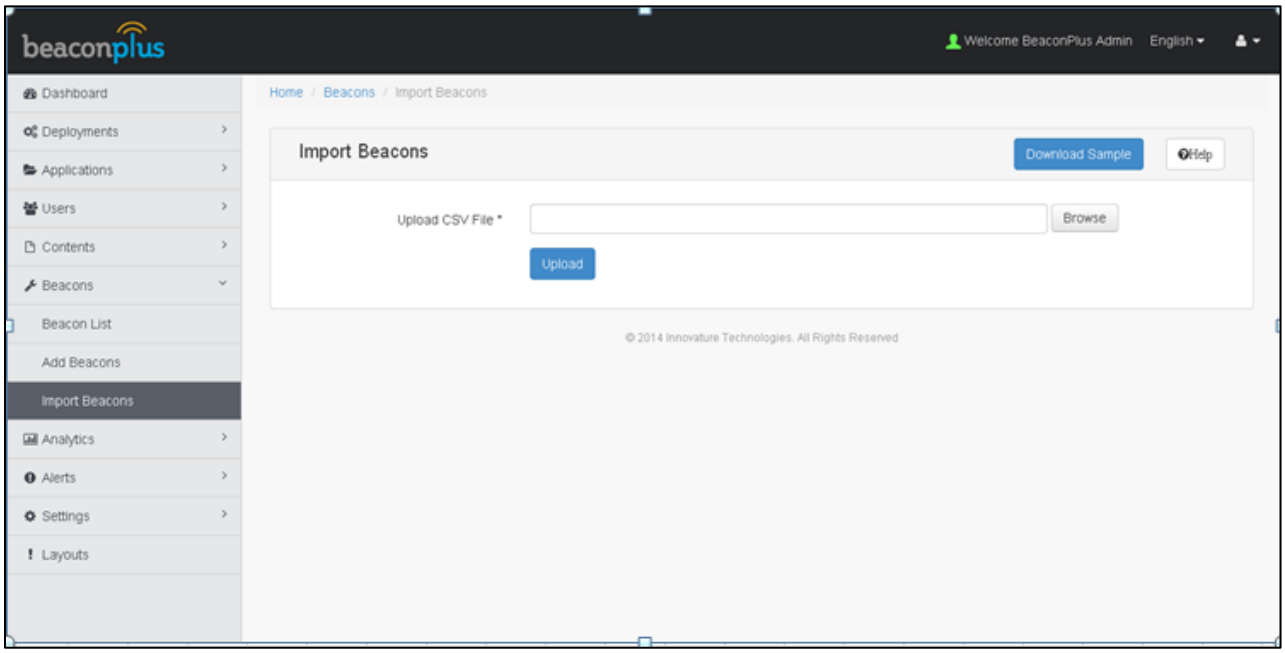


There are three mandatory fields as shown in the above screenshot. Mandatory fields have been marked with a (*).

- *Name*: The name of the beacon being added. Users could give any name of their choice with which they could recognize the newly added beacon. The name provided in the above screenshot is iB1
- *Provider*: Name of the service provider of corresponding beacon. Currently there are three providers – 'Estimote','Innovature' and 'SoftBeacon – 1'. Select your provider accordingly from the list. Kindly contact BeaconPlus Administrator (admin@pinmicro.com) in case your beacon provider has not been provided in the list.
- *Unique ID*: ID associated with the beacon. It consists of three parts Provider prefix, major and minor values of the beacon respectively. Each part has been separated by a hyphen. For eg. If Innovature is the provider then a sample Unique ID will look like **iB-0001-b700.**

7.3 Import Beacon

Another method is to add many beacons at a time by importing a CSV file that contains the details of all the beacons that are being added. This is particularly useful when you have to add a large number beacons at a time. The below screenshot depicts the same.

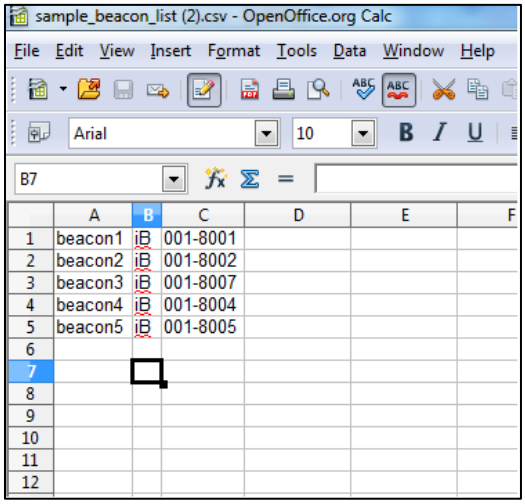


The CSV file should contain the following fields:

***Name*:** The name of the beacon that you would like to add
Provider_prefix: Valid provider prefix. Eg: 'eM' , 'ib' and 'sB' for 'Estimote', 'Innovature' and 'SoftBeacons ' beacons respectively.
***Unique_id*:** Minor and major values of the corresponding beacon. A hyphen should separate both the values.

**The values in the first and third fields should not exceed a character length of 50

Sample csv list with Innovature as the provider will look like this:



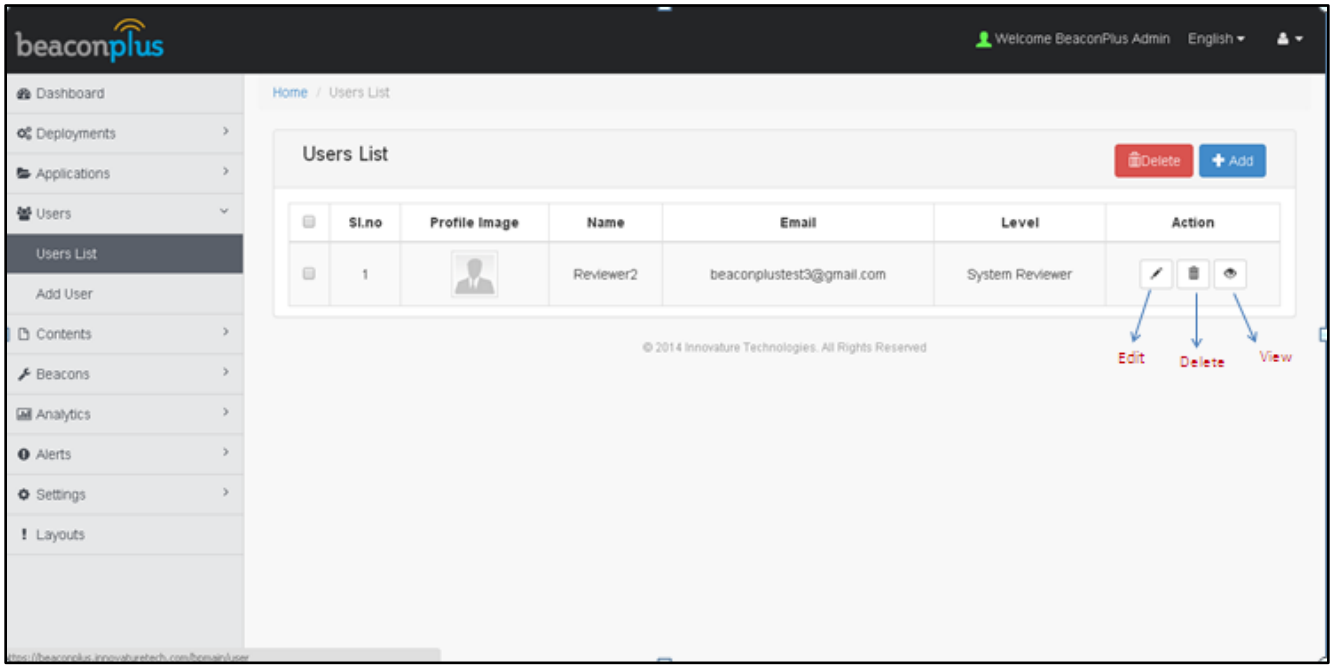
8 Users

'Users' page facilitates adding new users and assigning specific roles to them. It also lets you delete existing users or modify the roles of existing users.

8.1 User List

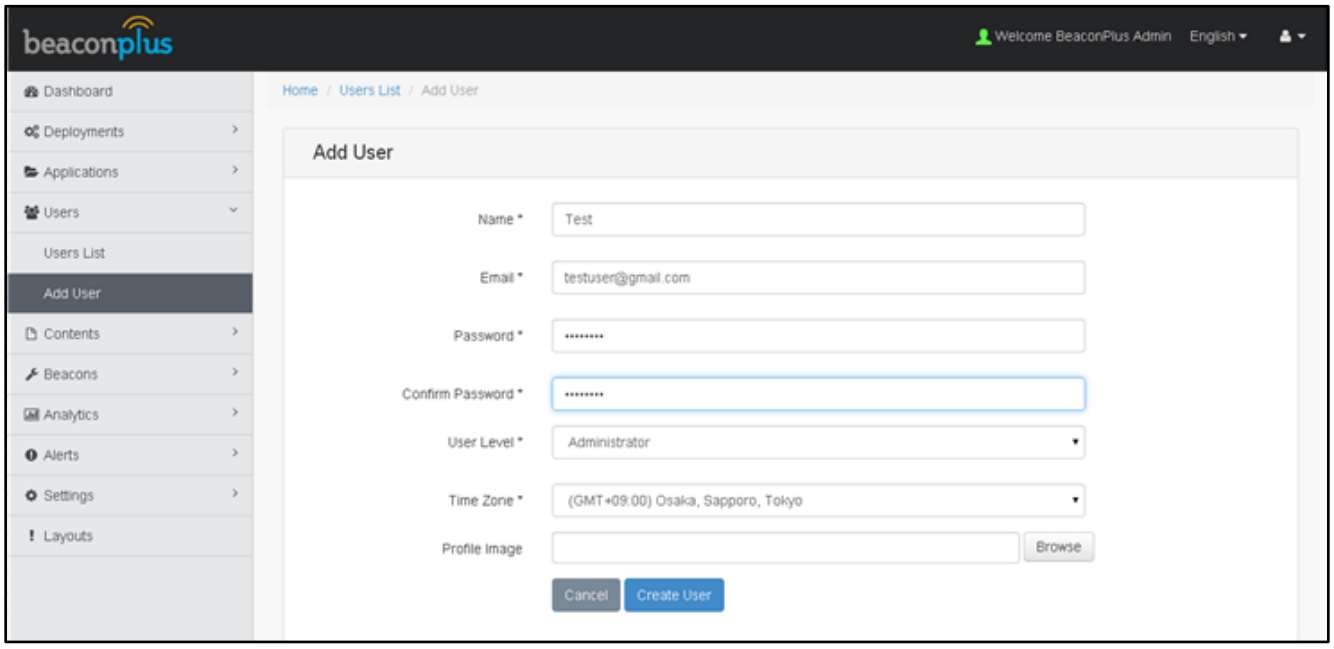
It displays the details of all existing users. The administrator has the power to view/edit/delete any particular user from this list.

Below screenshot shows 'Users List' Page.



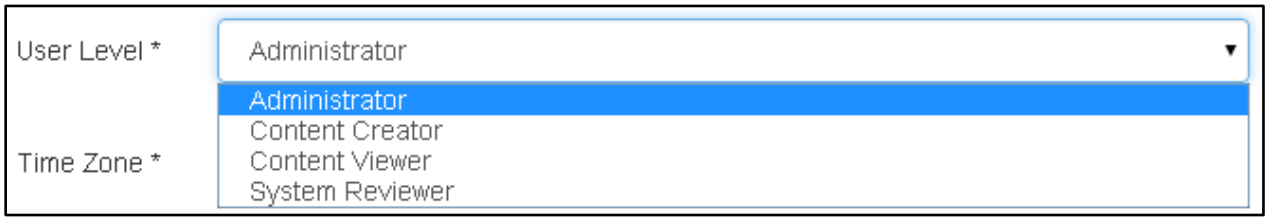
8.2 Add user

A new user can be added from this page. To add a new user, fill up all the necessary fields as shown in the below Screenshot.



The above screenshot depicts the creation of a new user with the name 'Test'.

The field 'User Level' enables the administrator to assign roles to the user being created.



There are four roles viz:

- **Administrator:** An 'Administrator' has a global role and he/she has access to the entire system. Administrators can add/edit/delete users, layouts, beacons etc. They also can assign/restrict roles of other users.
- **Content Creator**: A Content creator has the permission to create contents. He/she has access to all events included in the Content List.
- **Content Viewer**: Content viewer more or less acts as a reviewer. Content Viewer has access only to the content related menu options, that too in Read Only Mode.
- **System Reviewer**: The system reviewer has the sole permission to view the entire functionalities in the system like the contents, user list, the beacons etc. They don't have the permission to edit or modify them.

Once all the above details have been entered, click on the 'Create User' button. After this, the details of the newly added user will be appended to the 'User List'.

9 Content

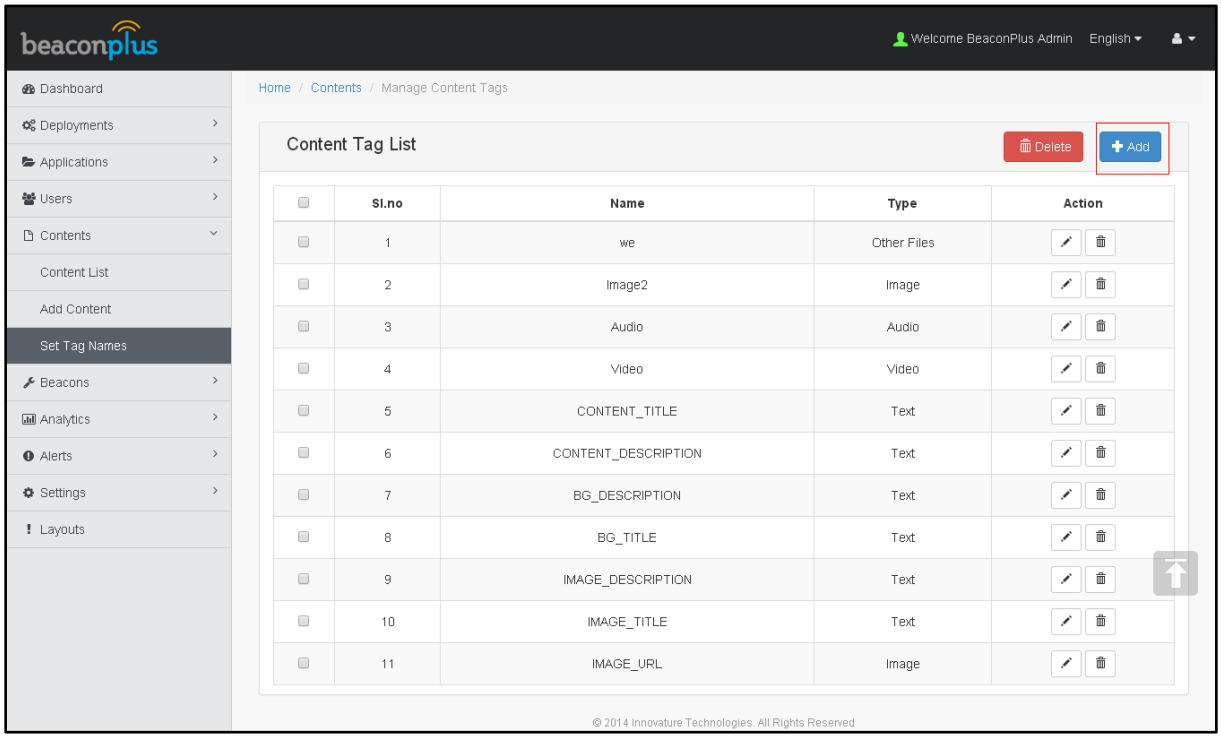
Managing all the contents that are meant to be pushed is done from this section.

Content delivery is one of the key features of BeaconPlus. Contents can be created in a much broader manner using our Tag creation feature.

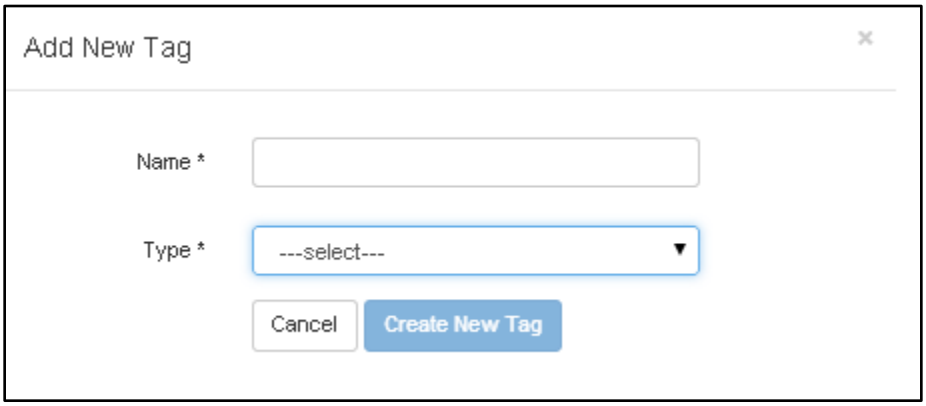
9.1 Set Tag Names

User has the facility to customize content fields by adding new tags. The new tags being added will be displayed in the 'Add Contents' Page. Through tag creation user can decide what all field must be used for delivering the contents through BeaconPlus SDK. It provides application developers the ease of integrating BeaconPlus SDK into their apps.

The below screenshot shows certain tags which have been already created. To create a new tag click on the 'Add' button, which has been shown within a red box in the below screenshot.

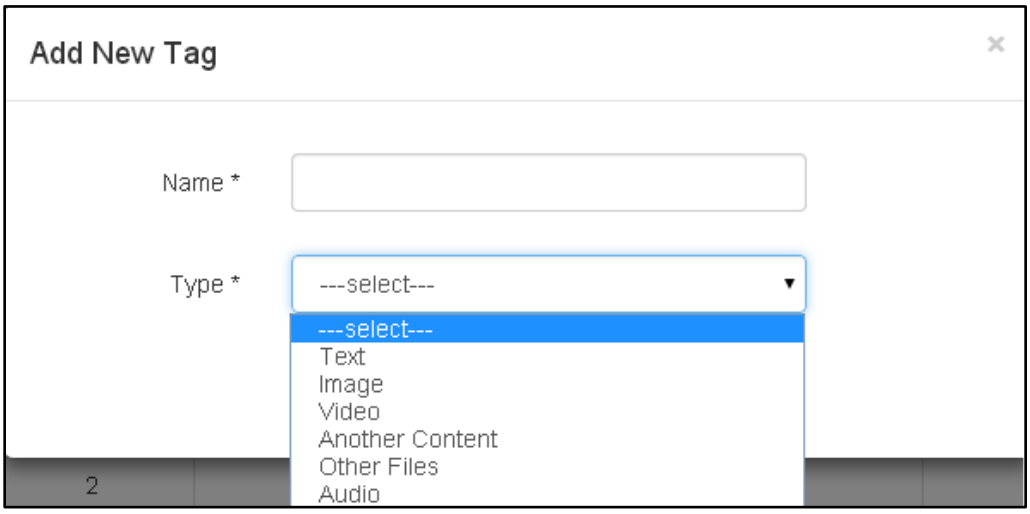


When clicked on the 'Add' button, a new window will appear on the screen.



Defining a Tag for your content deals with two basic things, giving a meaningful tag name which suites your application needs and selecting the right type for your tag.

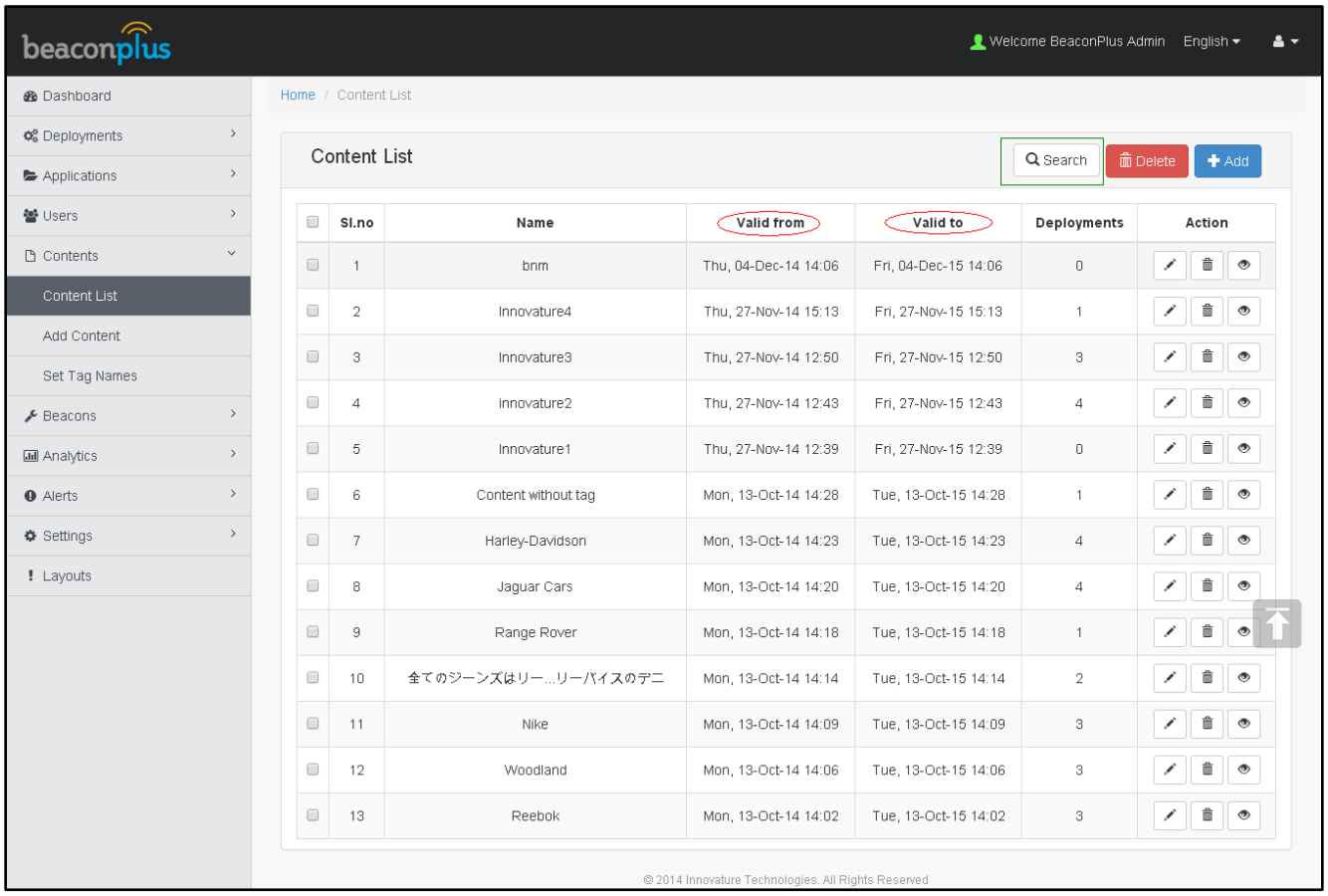
The below screenshot shows the available tag types



- *Text* : Can be used for various general uses since the value this field hold is normal text
- *Image* : image upload option will be made available if the tag type is specified as image. Currently supports – gif, png, jpg and jpeg files
- *Video* : Video upload option will be made available if the tag type is specified as video Currently supports – wmv, avi, mpegs, flv, mp4, mpeg4 and mov files
- *Audio* : Audio upload option will be made available if the tag type is specified as audio Currently supports – mp3, wmv, mp4 and wav files
- *Another Content* : This type is used in a scenario where you need to show some other contents while doing any action in another content
- *Other Files* : Currently we support pdf, ppt, doc, docx and text.

9.2 Content List

Content List shows the full list of existing contents. Users with permission can view/edit/delete these existing contents. Validity of these contents can be checked from the 'Valid From' and 'Valid To' (shown within the red marks) fields as shown in the below screenshot.


beaconplus
Welcome BeaconPlus Admin
English
Dashboard
Deployments
Applications
Users
Contents
Content List
Add Content
Set Tag Names
Beacons
Analytics
Alerts
Settings
Layouts
Home / Content List
Content List
Search
Delete
Add
Sl.no
Name
Valid from
Valid to
Deployments
Action
1 bnm Thu, 04-Dec-14 14:06 Fri, 04-Dec-15 14:06 0
2 Innovature4 Thu, 27-Nov-14 15:13 Fri, 27-Nov-15 15:13 1
3 Innovature3 Thu, 27-Nov-14 12:50 Fri, 27-Nov-15 12:50 3
4 innovature2 Thu, 27-Nov-14 12:43 Fri, 27-Nov-15 12:43 4
5 Innovature1 Thu, 27-Nov-14 12:39 Fri, 27-Nov-15 12:39 0
6 Content without tag Mon, 13-Oct-14 14:28 Tue, 13-Oct-15 14:28 1
7 Harley-Davidson Mon, 13-Oct-14 14:23 Tue, 13-Oct-15 14:23 4
8 Jaguar Cars Mon, 13-Oct-14 14:20 Tue, 13-Oct-15 14:20 4
9 Range Rover Mon, 13-Oct-14 14:18 Tue, 13-Oct-15 14:18 1
10 全てのジーンズはリー...リーバイスのデニ Mon, 13-Oct-14 14:14 Tue, 13-Oct-15 14:14 2
11 Nike Mon, 13-Oct-14 14:09 Tue, 13-Oct-15 14:09 3
12 Woodland Mon, 13-Oct-14 14:06 Tue, 13-Oct-15 14:06 3
13 Reebok Mon, 13-Oct-14 14:02 Tue, 13-Oct-15 14:02 3
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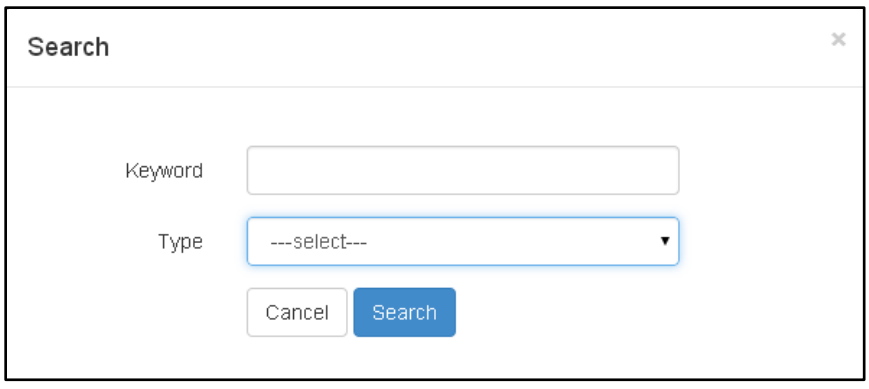
Content search option (shown in green box) is also available in content list page which can be used for filtering the list. Contents can be filtered using three methods

User can search the list in three ways as shown in the below screenshot.

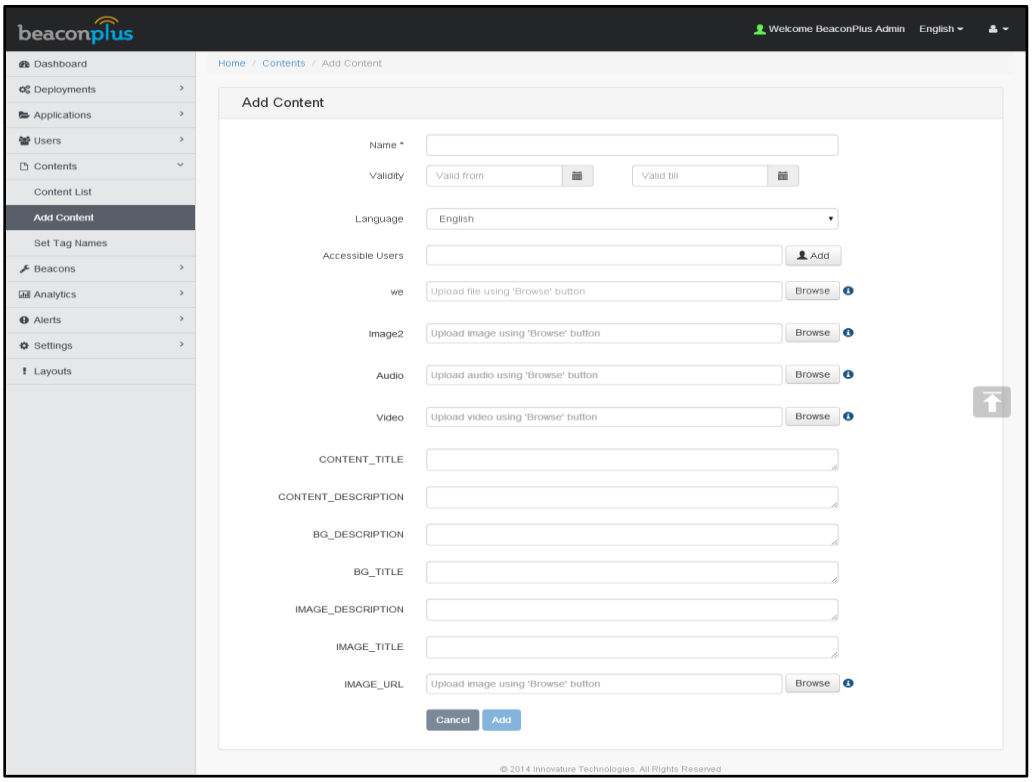


- *Search using **Keywords***: Enter any particular keyword corresponding to the required content.
- *Search using **Content tag***: Search for items with values in a particular content tag.
- Search using a method combining the above two mentioned method

9.3 Add Content

New contents can be added from the 'Add Content' page. Fill up the mandatory fields and click on the submit button to get these contents visible on the content list.

The below screenshot shows the 'Add Content' page



- *'Name'* refers to the title of the content that the user is going to add. This 'Name' will be listed on the 'Content List'.
- *'Language'* refers to the language in which user would like the content to get displayed. Right now, we offer multiple language options. 'English' and 'Japanese' are the two languages supported by our system. Right content will be served based on the language parameter in the API requests from SDK. If the requested language content is not found in the server, it will give the content values in the default language. Default language is also configurable once content is added in more than one language
- '*Validity From*' and '*Validity to'* are used to set the time frame through which users would like to keep

their content active. By default, the validity of the contents has been set as 1 year.

- *Accessible User*: User can select other specific users for whom a particular content would be accessible.

Rest of the fields represents '*Content tags'* that have been created by the current user.

'Image2' and 'Image URL' are tags created for uploading image files.

'Audio' and 'Video' tags have been created to add Audio and Video files respectively.

'CONTENT_TITLE', 'CONTENT_DESCRIPTION','BG_DESCRIPTION','BG_TITLE','IMAGE_DESCRIPTION' and 'IMAGE_TITLE' are text fields.

Once you have added all the details, click on the add button. The newly added content will be displayed on the 'Content list' page.

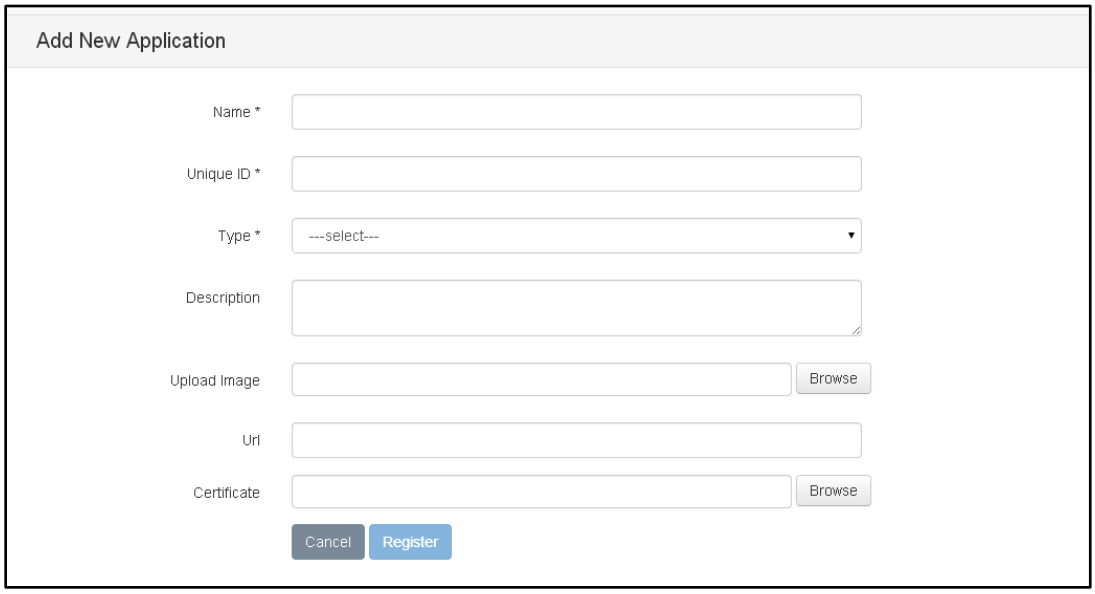
10 Applications

Managing the mobile applications that could use the BeaconPlus SDK is a process of prime importance. This could be handled from the 'Applications' page. In order to use BeaconPlus SDK features, the application has to be registered in the BeaconPlus cloud.

10.1 Add Application

As mentioned above, it is necessary to register an application with the cloud for it to use the BeaconPlus SDK features. Users can add and register a new application from the 'Add Application' page.

Following screenshot shows the 'Add Application' page and its fields.



- *Name*: Name of the application that user would like to register.
- *Unique Id* : Usually this is the bundle ID of the application being registered
- *Type*: Currently, there are two types; 'Android' and 'Iphone'. Select the appropriate OS type that supports the application
- *Description*: Any description about the application that user would like to add.
- *Upload Image* : An image can be uploaded which would function as the icon of the application
- *URL:* Home Page URL of the application.
- *Certificate*: Application certificate file which can be made use of if there is any demand for push service.

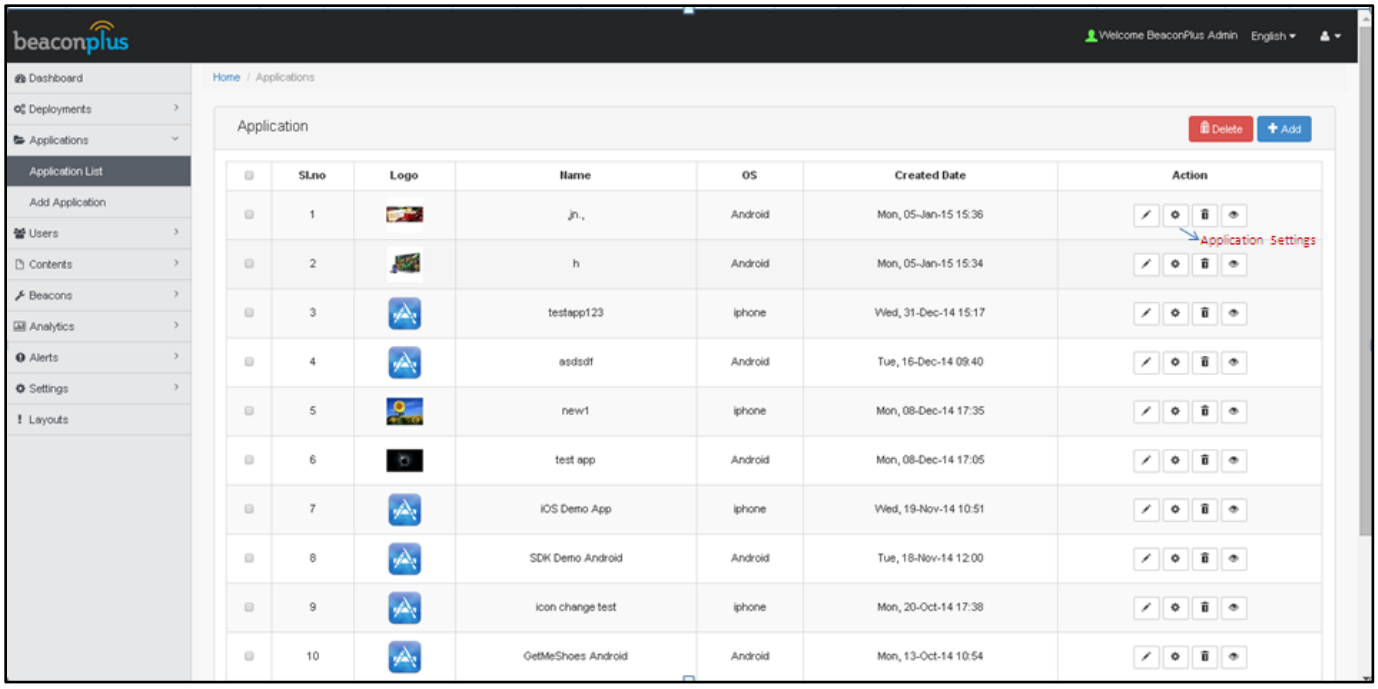
Once the user has filled the required fields, go forward and click on the 'Register' button to confirm registration.

10.2 Application List

This page lists all the existing applications that have already been registered in the cloud.

The below screenshot shows an 'Application List' page. The user can edit/delete/view the details of

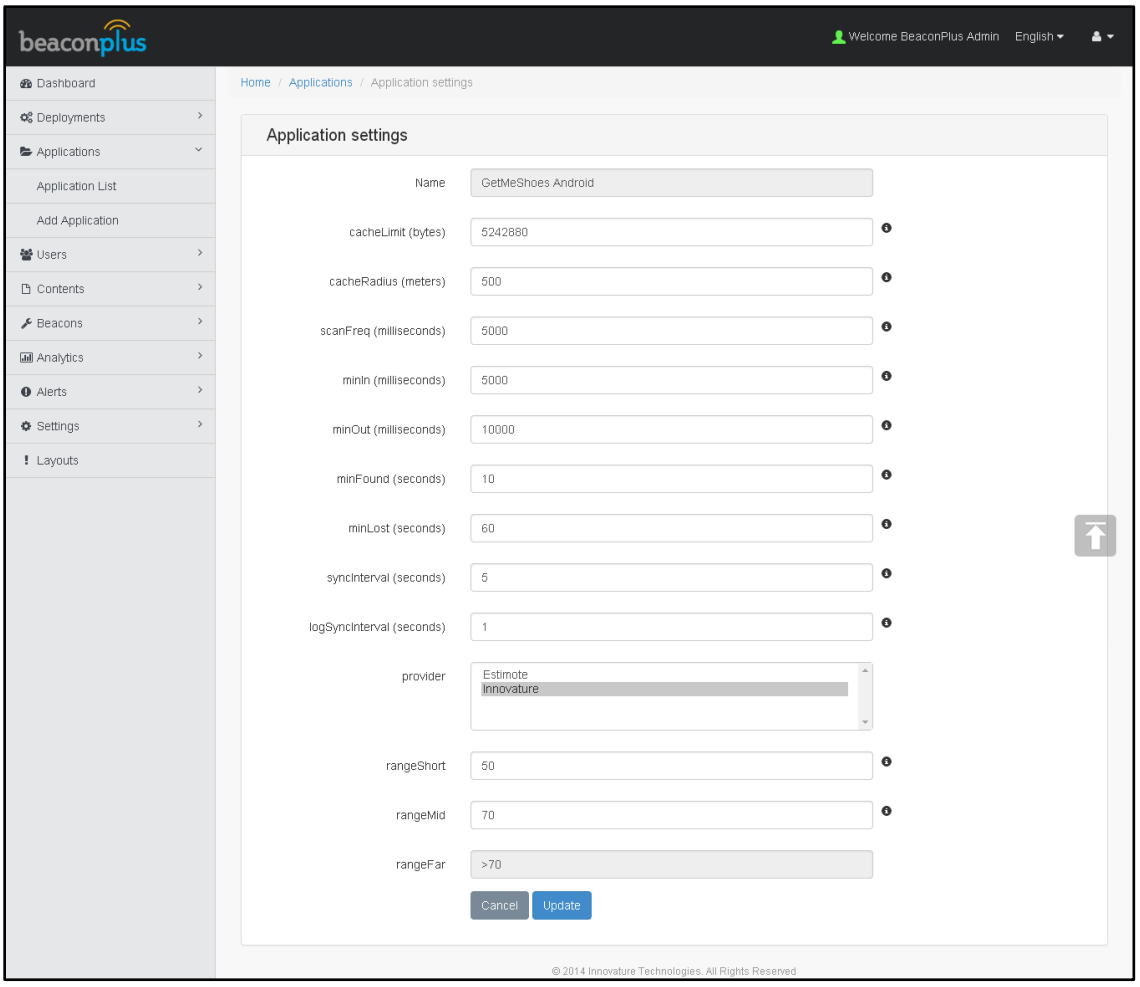
applications. Apart from these, a settings button is also present; the functions of the same will be discussed below.



10.3 Application Settings

As mentioned above, there is a settings option at user's disposal in the Application list page.
Application settings allow user to set values which will be used by the SDK during initialization process. All the fields mentioned in the page will have certain default values. The user can set values they want but within a specific range.[The ranges can be found by moving your cursor over information button corresponding to each field]

The below screenshot shows the' Application settings' Page. It deals with a sample app name 'GetMeShoes Android'



cacheLimit : This enables individual caching of files within required limits. The value in this field specifies the maximum size limit of an individual file to be cached. In the above example the limit has been set to 5 MB

cacheRadius : The unit of cache Radius is in meters. The data associated with beacons within this specified range would be cached. In the example, the radius has been set as 500 meters.

ScanFreq : The value in this field gives the time limit within which data is processed and output is given. In the above screenshot scan frequency is set to 5 sec which means that the receiving data will be processed in every 5 seconds.

Minin : Minimum time limit for which the beacon should continuously receive a hit, to consider the device as in range.

Minout : Minimum time limit for which the beacon should continuously miss a hit, to consider the device as out of range .

minFound: Minimum time gap between the last time when a hit on a beacon was lost and the next time it was

detected, to consider it as a new hit.

MinLost : Minimum required delay between a loss and receival of a hit, to consider it as new hit.

SyncInterval : This is the time interval in which the updates are received from the server. In the above screenshot the SyncInterval has been set as 5sec, which means updates from the server will be received in every 5 seconds.

LogSyncInterval : This is the time interval in which different types of logs like analytic logs and server logs would be sent to the server.

Provider: Manufacturer of the beacons being used

RangeShort : The value in this field determines the limits of Short Range. Consider the screenshot; the short range value has been set to 50.This means that any device coming within this range will be considered as within short range.

RangeMid: The value in this field determines the limits of Mid Range. In the above given screenshot, the limit of mid range value has been set to 70. So any device coming within the range of 50 and 70 will be considered as in mid range.

RangeFar: The value in this field determines the limits of Far range. Consider the above screenshot, RangeFar has been set as >70. It means that any device coming outside the range of this specified value will be consider to be in Far range.

11 Deployment

Once all of the above steps have been referred and done, the final thing to be done is to deploy the application. Things come in to action, only after this step.

11.1 Add Deployments

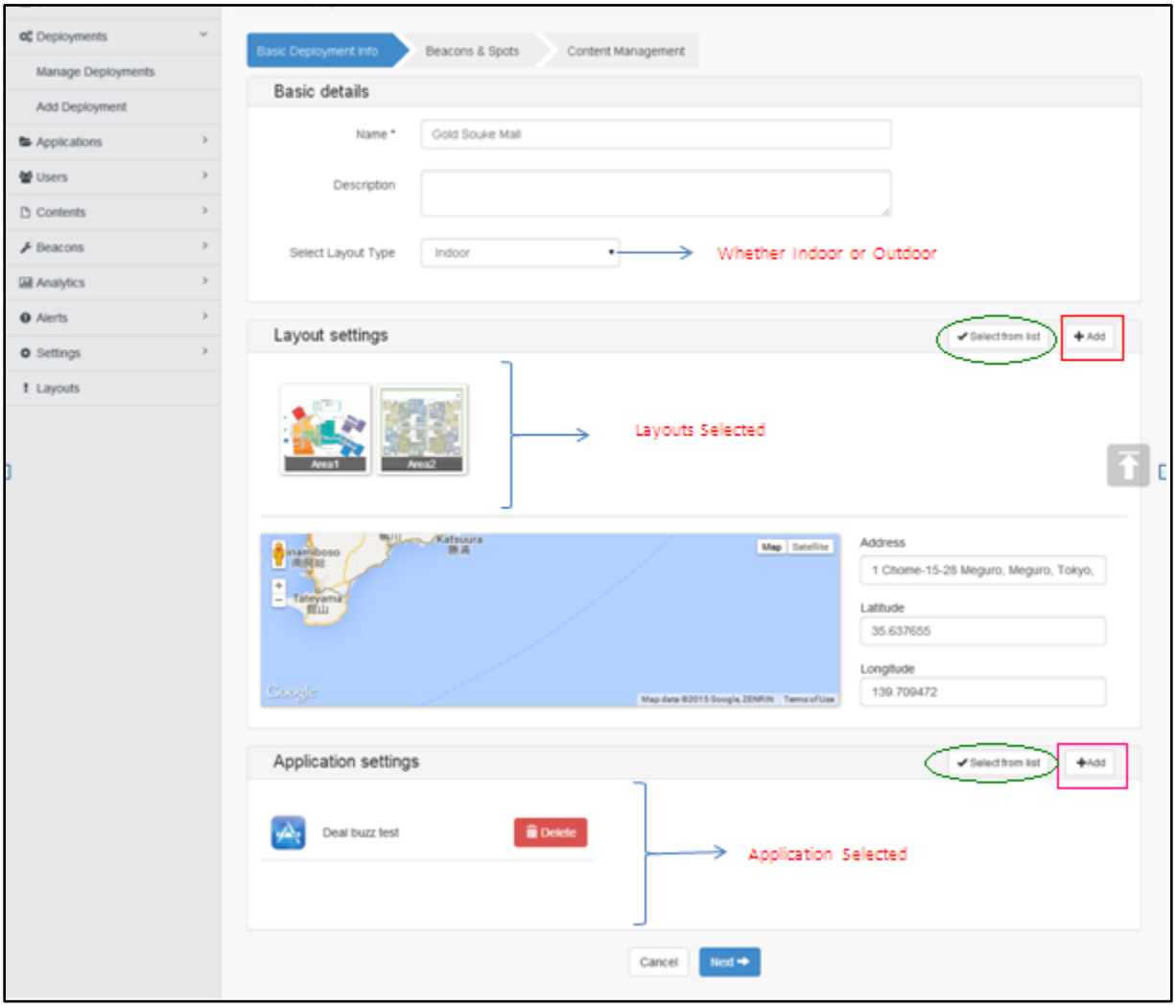
This is the page from where the users can add new deployments. A deployment can be indoor or outdoor depending on the requirements of the user.

Basically there are three steps in add deployment process

11.1.1 Basic Info

As the name suggests, this page is used to add basic details of the deployment.

The below screenshot shows 'Basic info' page of a new deployment being created.



Name: Name that the user would like to give for the deployment. In the above example it has been given as 'Gold Souke Mall'

Description: A brief description of the deployment that is being created.

Select Layout Type: This is where the user could choose an option from indoor/outdoor. In the above example it has been selected as indoor since the beacons are arranged inside the mall.

11.1.2 Layout settings

Select the Layout of the area on which the beacons have to be placed

There are two ways by which user can select a layout.

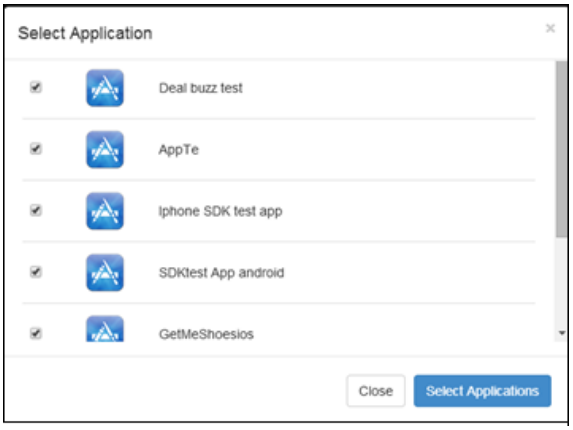
- *Select from List:*
  Click on the 'Select from list' button to select a layout that the user has already uploaded in the Layout page.

- *Add New Layout:*
  If user wishes to add a new layout, click on the 'Add' button and upload the layout of choice.

11.1.3 Application Settings

Now next process is to select the application for which the deployment is being done. Similar to the selection of layouts, application selection shall also be done in two ways.

- *Select from List*: Select the application from the list of applications that user had already registered. User can select multiple applications at a time by clicking on the checkboxes as shown below.



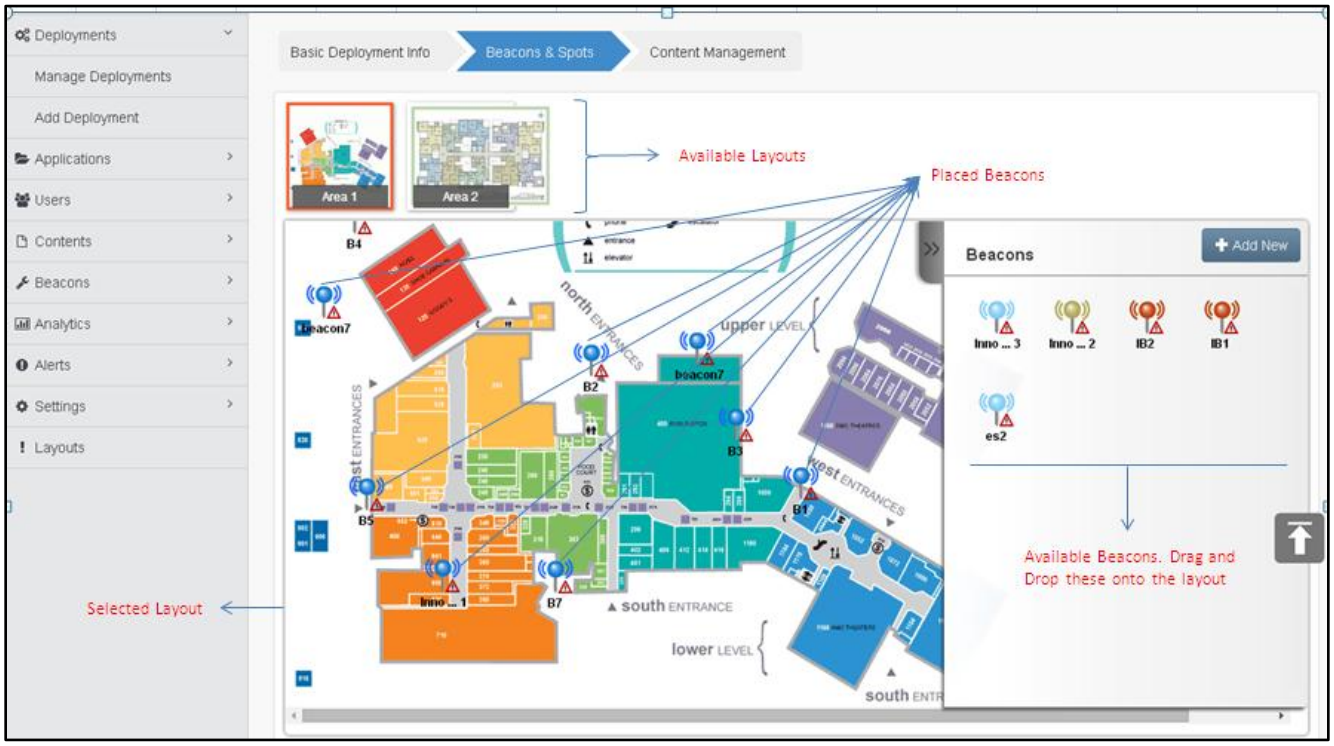
- Add New Application: Click on the 'Add' button and register the application that you want to add.

Once the user completes filling the 'Basic Info' page, click on the 'Next' button to go to the next step.

11.2 Beacons and Spots

This is the major step in the deployment process and deals with adding beacons to exact spots in the lay out. Beacons can be placed on the layout by using the drag and drop functionality.

The list of available beacons are shown on the right hand side of the page as shown in the below screenshot.



The Layout list will be shown on the topmost part of the page as shown within a red box in the above screenshot. Click on the required layout where the beacons have to be placed.

Once you have selected the layout, drag and drop the beacons to appropriate positions on the layout.

If you wish to add new beacons to the list, click on the ‘Add New’ button and add the required beacons.

Icons of the beacons show their current state. The table showing the icons of beacons and their corresponding status messages is shown below.

	Not Used	Used	Battery Low (<15%)	Battery Critical (<5%)	Conflicted
Active					
Disabled					
Inactive					
Blocked					

Once the user is done with the placing of beacons at appropriate spots, click on Save & Continue button to move to the next step.

11.3 Content Management

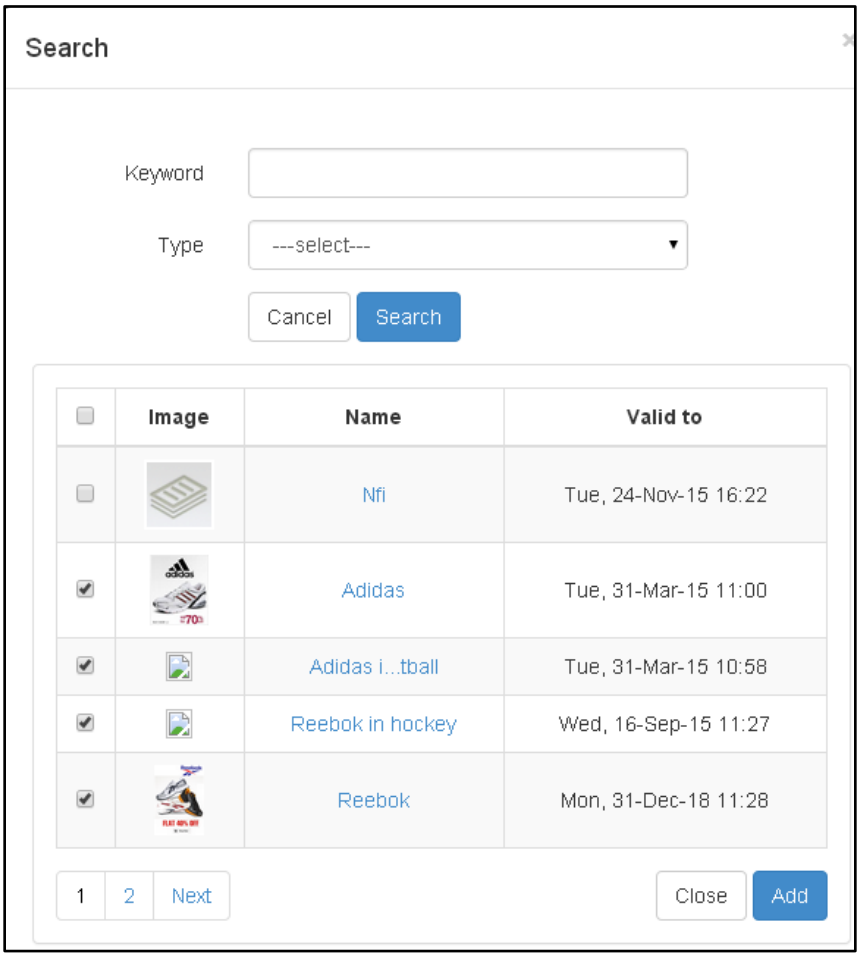
Contents that have been added by the user earlier in the 'Content' section come into foray in this step. Each beacon should be assigned with contents that are meant to be displayed. There isn't any restriction on the number of contents that a particular beacon could hold.

To add contents, do the following steps.

a) Click on the Beacon in the layout, for which the content has to be added. (In the above screenshot Beacon with name B4 has been selected).

b) If already some content exists, it will get displayed on the right hand side of the page as shown in the screenshot.

c) Click on the 'Add Content' option. When clicked, a search window will get opened as shown below.



d) User can search for the required content by 'Keyword' and 'Content Type'. User can also select multiple contents by clicking on the checkboxes corresponding to the related contents.

e) Once you have selected the content, click on the 'Add' button.

Content that the user has selected gets displayed on the right hand side of the page as shown in the red box in the screenshot below.

A content assigned to a beacon carries the following fields.

User can assign values to the following fields by clicking on the settings button corresponding to that content.

Valid From : Defines the date from which the content should be shown while detection of that particular beacon

Valid To : Defines the date up to which the content should be shown.

Priority: Currently, there are three values; Low, High and Medium. According to priority, the user can set the

option. This option serves when there are multiple contents in the same beacon. In these kinds of cases, contents with the highest priority will be shown.

Range : Ranges have three values; Short, Far and Medium.

Short : A content assigned with range value as 'Short' will be delivered from SDK to app only if the beacon detection range is short.

Medium: Used when beacon detection range is medium

Far : Used when beacon detection range is far.

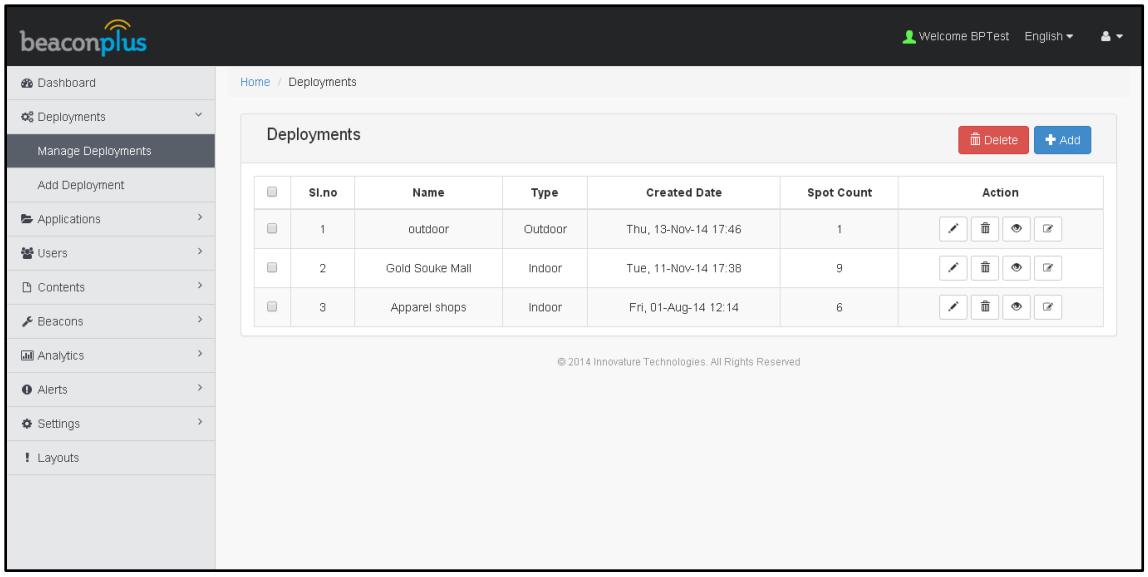
Note : If a beacon is assigned with three contents with 2 different range values, then

- If beacon detection is short => all three contents are delivered from SDK to app.
- If beacon detection is medium => only contents with medium and far range values are delivered from SDK to app.
- If beacon detection is far => only contents with far setting value is delivered from SDK to app.

Once the user has done with all the above steps, click on 'Finish' button. The deployment will be saved and would be ready to use by the SDK.

11.4 Manage Deployment

All the deployments that have been saved will be listed in the 'Manage Deployment' page as shown in the below screenshot. Here user can find the options to View/Edit/delete/Manage contents of various deployments.



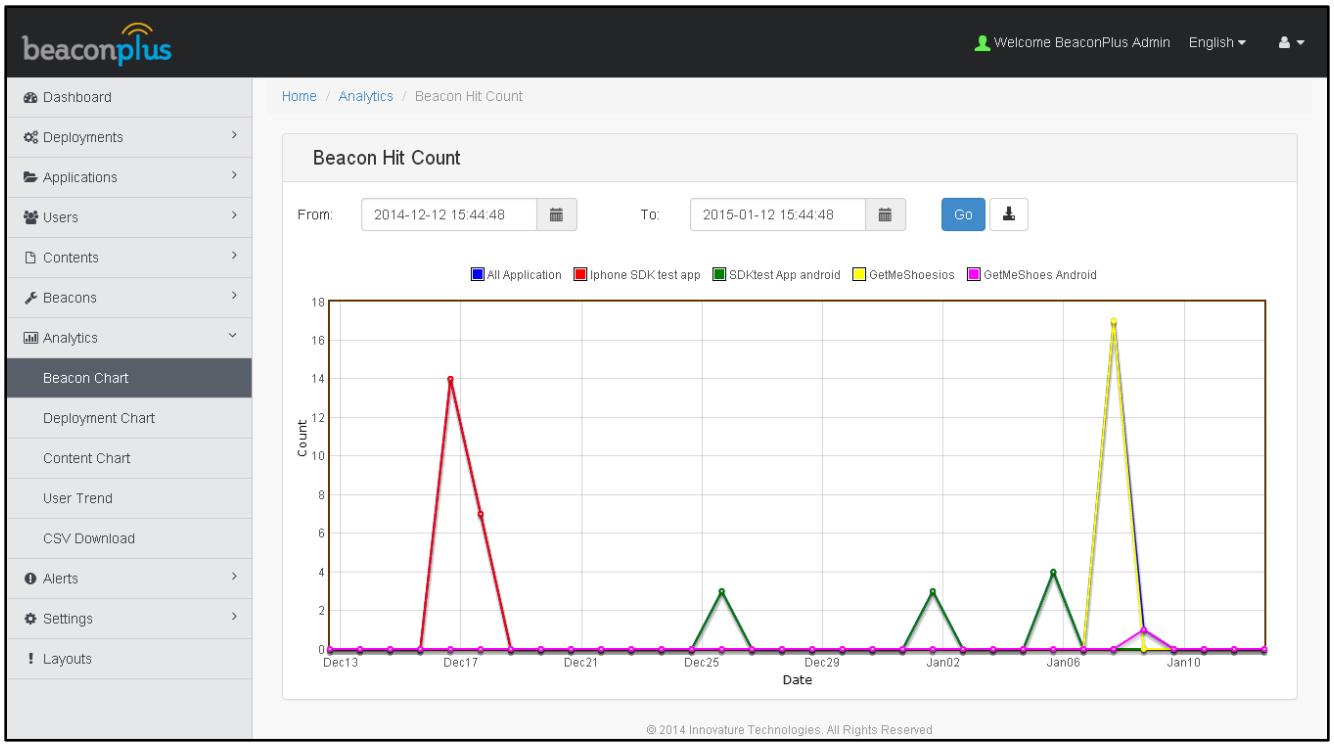
12 Analytics

Analytics section serves functions similar to that of the dashboard, the difference being that, here in analytics section, users get details in a much broader manner covering various parameters.

12.1 Beacon Chart

The chart shows number of beacon hits on different applications, in a specific time period. It shows the number of hits on a day wise basis.

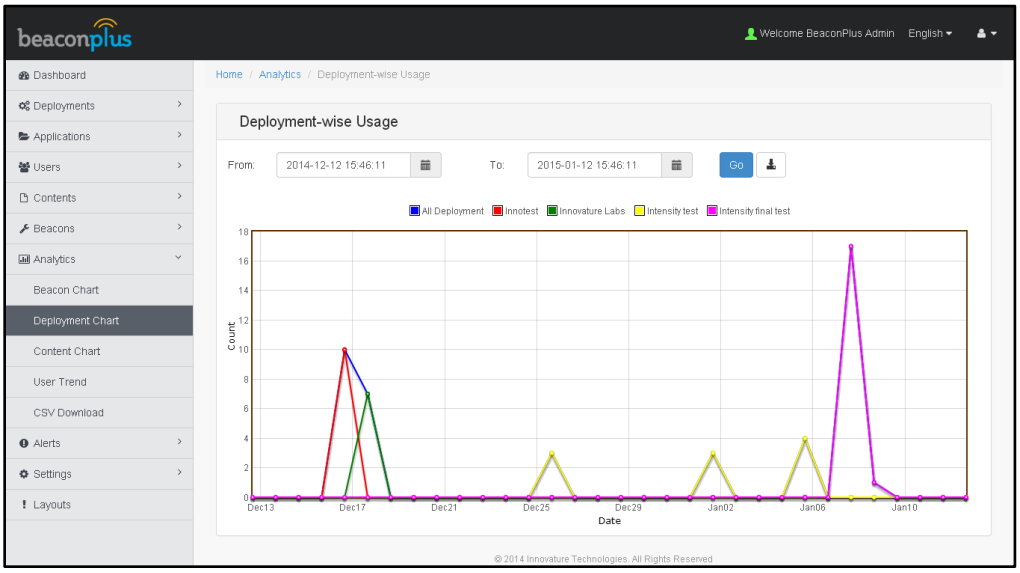
Consider the following screenshot. The graph shows the number of beacon hits for different applications, displayed on a day wise basis. It shows the beacon hits within the time period as set in the 'From' and 'To' fields. If required the user can download the data as a file in CSV format, by clicking on the download button.



12.2 Deployment Chart

Here user gets to see a chart where classification has been done based on the various deployments. The graph shows the total number of hits for a particular deployment.

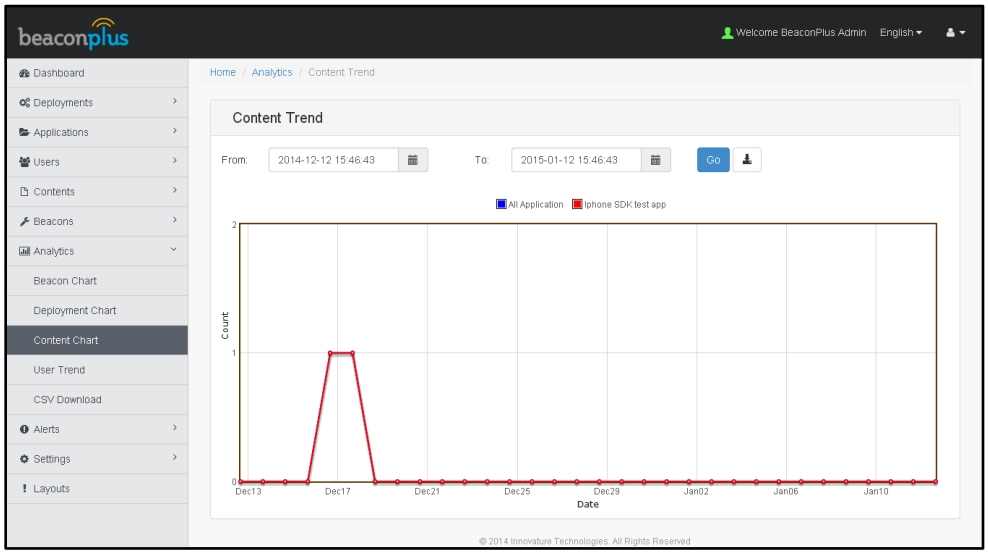
Please find the below screenshot, where the hit count for various deployments in the specified time period has been shown.



12.3 Content Chart

Content chart helps the users to determine the content trend. The graph shows the number of times the content associated with a particular application has been pushed, in a specified time period.

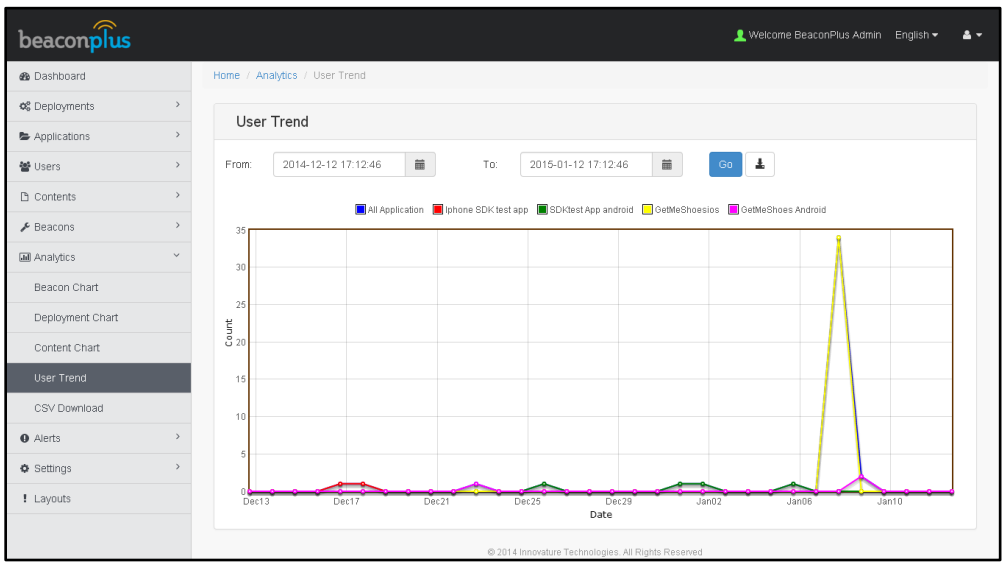
The below given screenshot shows the trend of an application named ‘Iphone SDK test app’.



12.4 User Trend

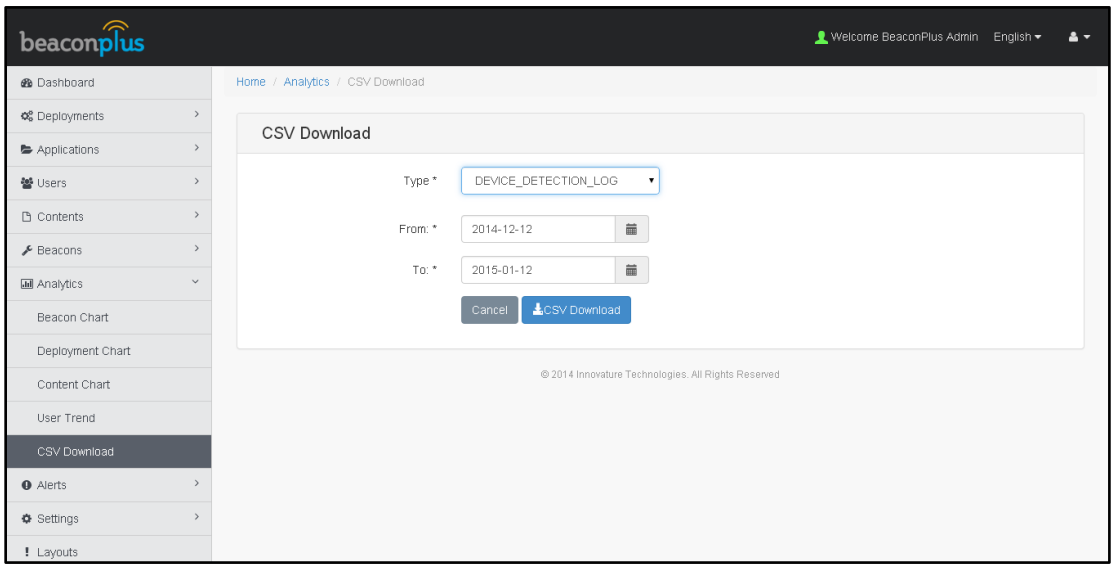
This chart helps the user understand the current user trend and the usage of applications. The graph shows the total number of users who have used the application in a particular time period.

The below screenshot shows ‘User Trend’ of various applications in a particular time period.



12.5 CSV Download

The user has the facility to download various logs in CSV format. Below screenshot shows the CSV Download Page.



At present, 6 types of logs are available for download namely:

a) DEVICE_DETECTION_LOG
b) SPOT_ENTRY_LOG
c) SPOT_EXIT_LOG
d) CONTENT_DELIVERY_LOG
e) CONTENT_HIT_LOG
f) CLIENT_INSTALL_LOG

User can choose the time period from the 'From' and 'To' fields as shown in the above screenshot.

13 Alerts

This section provides different kinds of alerts from the system to the user, based on the information of which necessary actions can be taken.

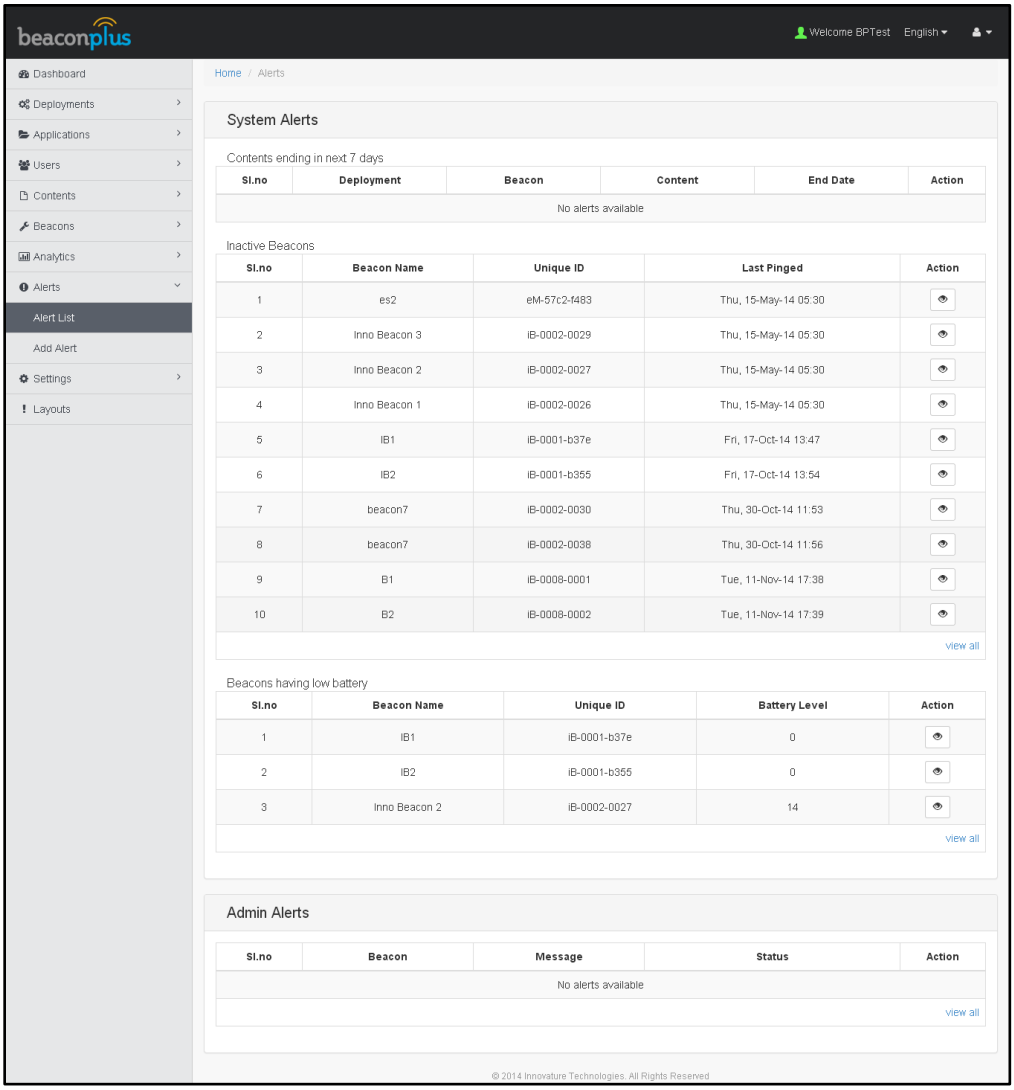
13.1 Alert List

'Alert List' page displays various system related alerts. The different alerts provided are

- *Contents ending in next 7 days*: This is an alert which notifies the user about the contents whose validity is going to expire in a week's time. The user can extend the validity date if required based on this information.

- *Inactive Beacons*: This notifies the user about the beacons that are currently inactive.
- *Admin Alerts:* Admin Alerts display alerts that have been added from the 'Add Alert' page.

The below screenshot shows the 'Alert List' page.



13.2 Add Alerts

User can add alerts regarding specific beacons and send those messages to other users. By this way, other users get notified about any immediate attention required for specific beacons. These alerts will get displayed in the 'Admin Alerts' section in the 'Alert List' page.